

Outdoor 5G/4G Radome Omni Dipole Antenna

RO600/71NFKIT – 617 to 7125 MHz



Features & Applications:

- Ⓜ 617-960/1450-7125MHz
- Ⓜ WiFi 6E, 4G/5G FR1
- Ⓜ Includes Band 71 (617-698MHz) and CBRS Bands 42 and 48 (3400-3700MHz)
- Ⓜ Dual Band WiFi Support
- Ⓜ Omni Directional radiation pattern
- Ⓜ Average peak gain: 617-960 MHz 2.5dBi, 1450-4200 MHz 4.0dBi, 4400-7125 MHz 4.3dBi
- Ⓜ Size: Dia. 2.45" (62.2mm) Height 8.64" (219.4mm)
- Ⓜ N-Female Connector (720-hour salt spray rating)
- Ⓜ DC Grounded
- Ⓜ Bracket, mounts to Ø1"-2.12" (25.4-54mm) pole (720-hour salt spray rating)
- Ⓜ Utility boxes, Smart metering, IoT Devices

Electrical specifications @ 25° C

Frequency Bands – 617-960/1450-2700/3300-4200/4400-5000/5150-5925/6000-7125 MHz

Antenna type ¹	Nominal Impedance	Polarization	Radiation pattern	Power withstanding	DC Ground
Dipole	50Ω	Vertical	Omni	10W	Yes

Frequency (MHz)	617-960	1450-2700	3300-4200	4400-5000	5150-5925	6000-7125
VSWR	2:1	2:1	2:1	2:1	2:1	2:1
Average Peak Gain (dBi)	2.2	3.0	5.0	4.1	3.3	4.3
Average Efficiency (%)	76	77	76	65	60	59
HPBW Vertical Plane (°)	62	37	30	25	50	35

Mechanical / Environmental Specifications

RO600/71NFKIT

Size (Diameter x Height)	Color ²	Weight	Connector Type	Fixing System ³
62.2 (2.45") x 219.4 (8.64") mm	White	620grms (1.37lbs)	N-Female	ROBKTSS

Housing Material	Ingress Protection	RoHS-6 Compliant	Operating Temperature	Storage Temperature
PET+PC, UV rated	IP67	Yes	-40°C to 80°C	-40°C to 80°C

Notes:

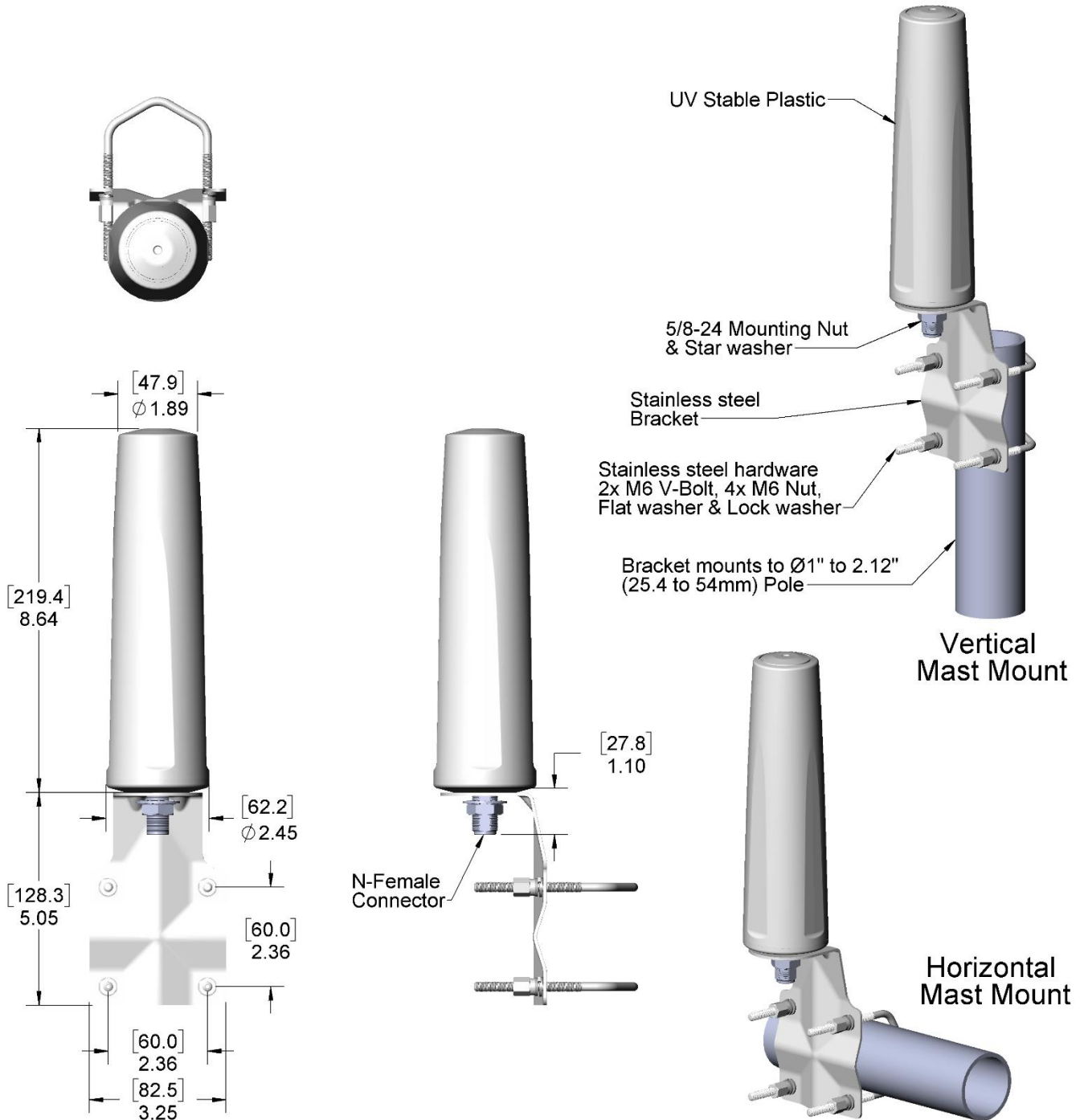
1. Measured with bracket.
2. Custom colors available upon request.
3. Stainless steel mounting bracket (with hardware) included.
Ø0.625" (15.9mm) hole required if not used with ROBKTSS mounting bracket.

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Mechanical Drawing

RO600/71NFKIT

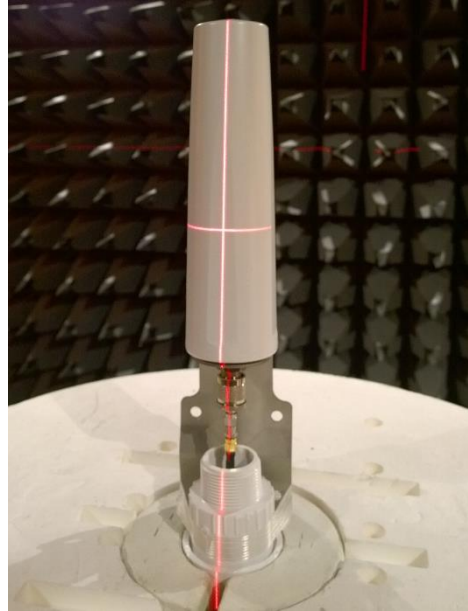


Dimensions: Inches (mm)

Unless otherwise specified, all tolerances are \pm .010 (0.25mm)

Test Setup

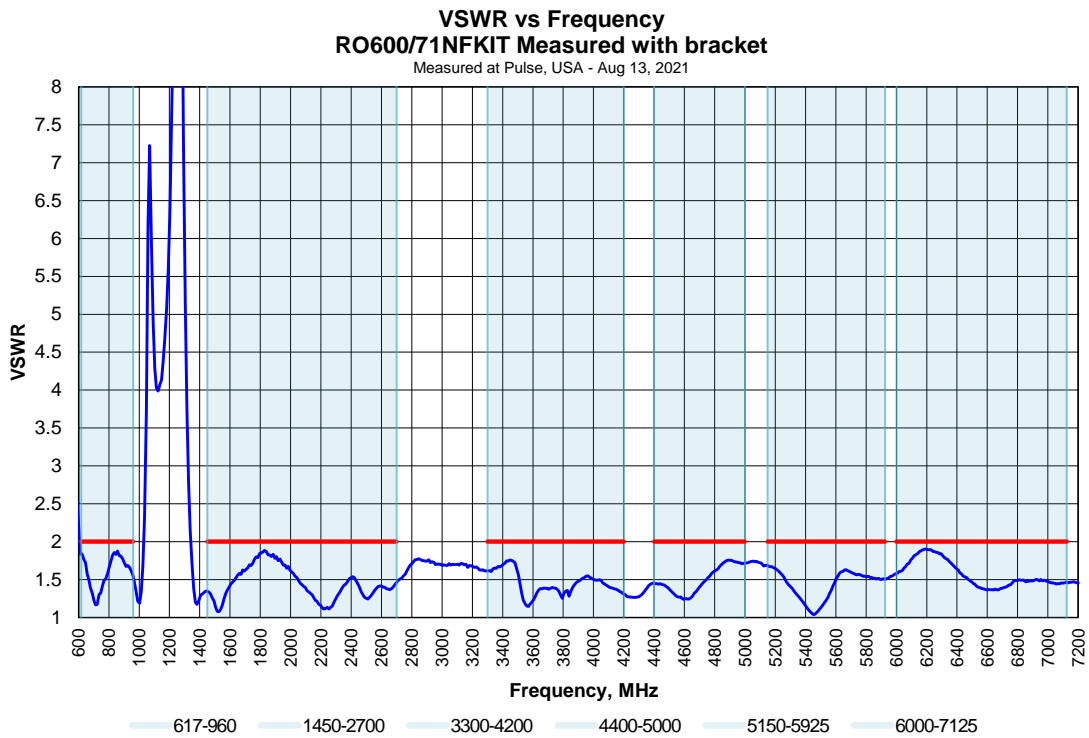
RO600/71NFKIT



RO600/71NFKIT antenna sample measured on bracket.

Charts- VSWR

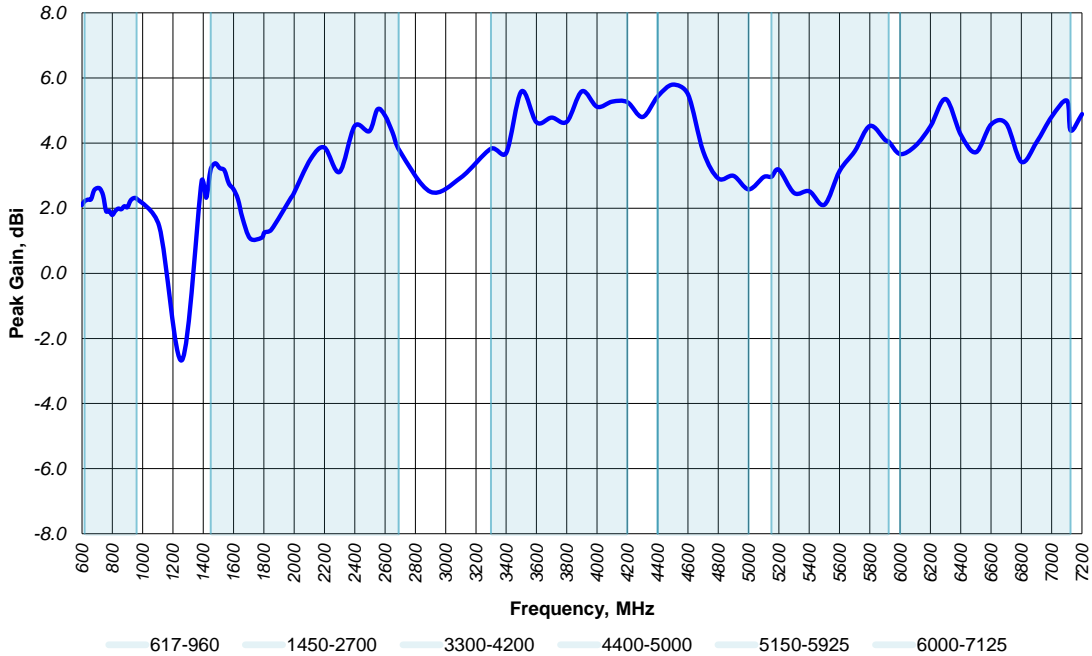
RO600/71NFKIT



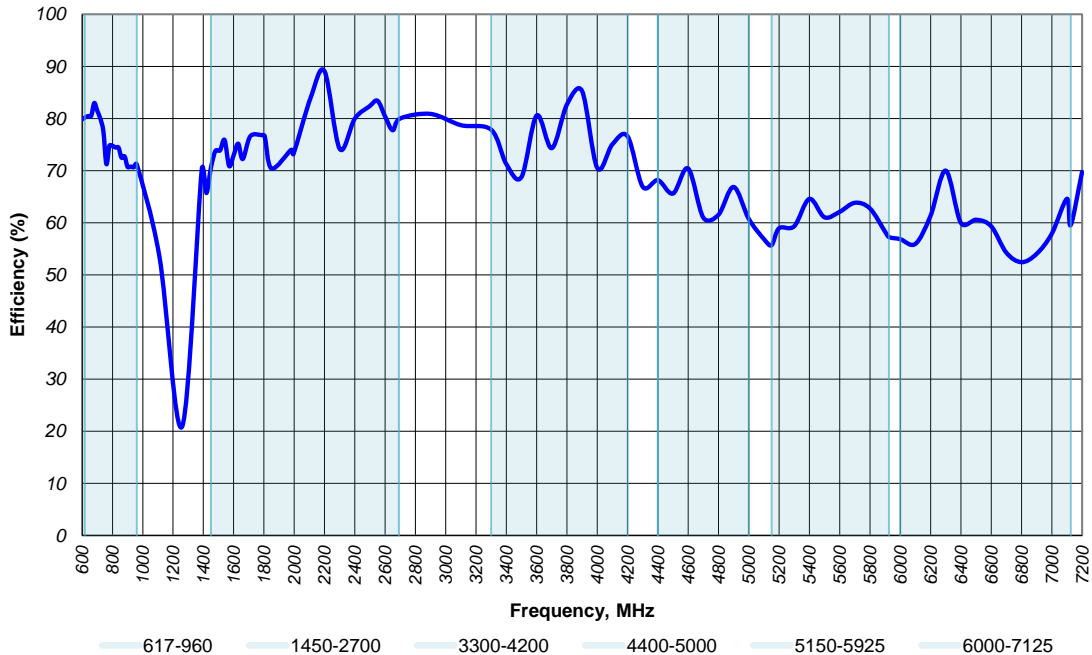
Charts- Peak Gain and Efficiency

RO600/71NFKIT

Peak Gain vs Frequency
 RO600/71NFKIT Measured with bracket
 Measured at Pulse, USA - Aug 13, 2021

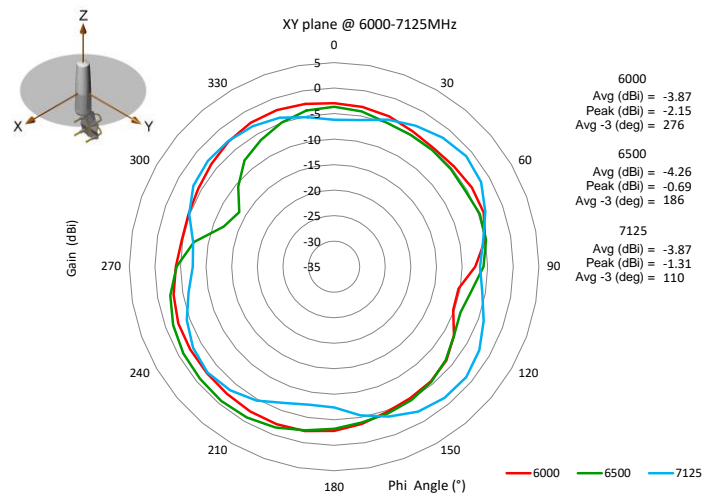
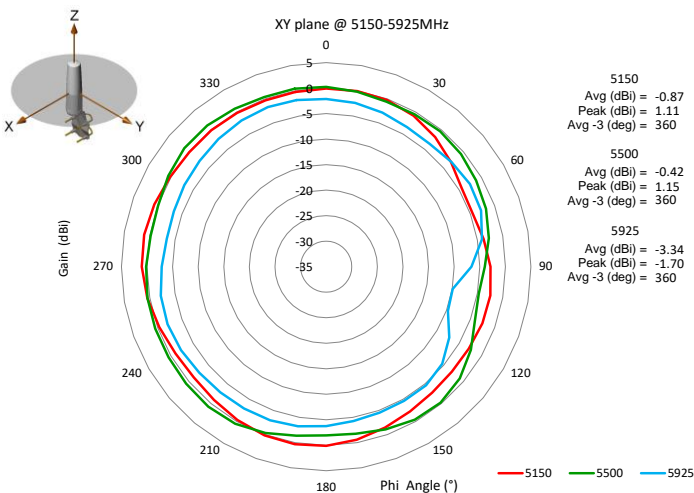
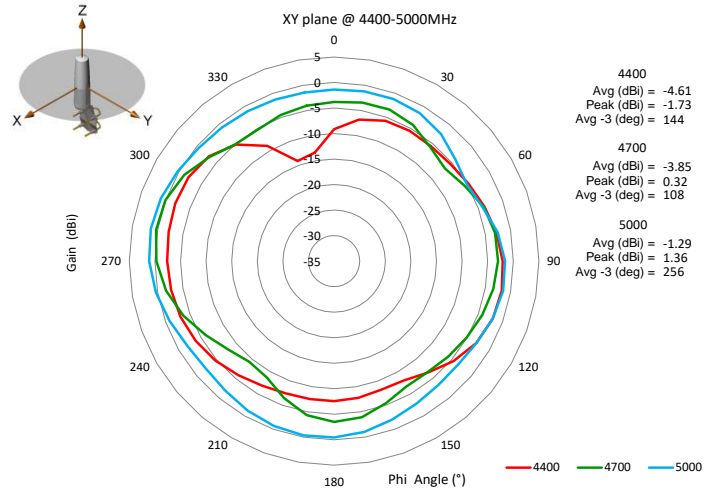
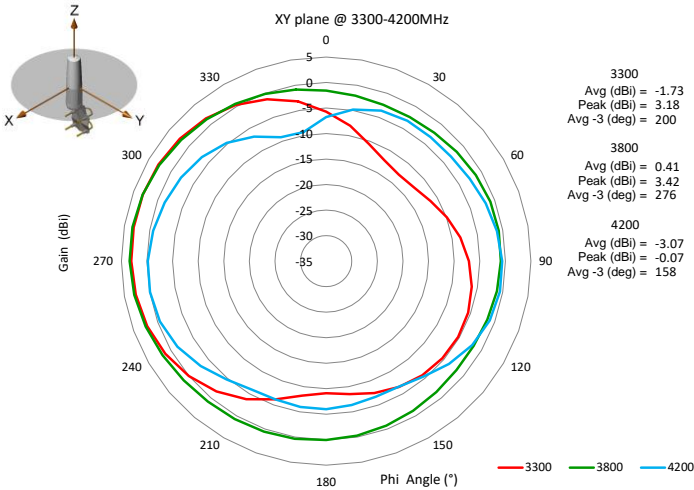
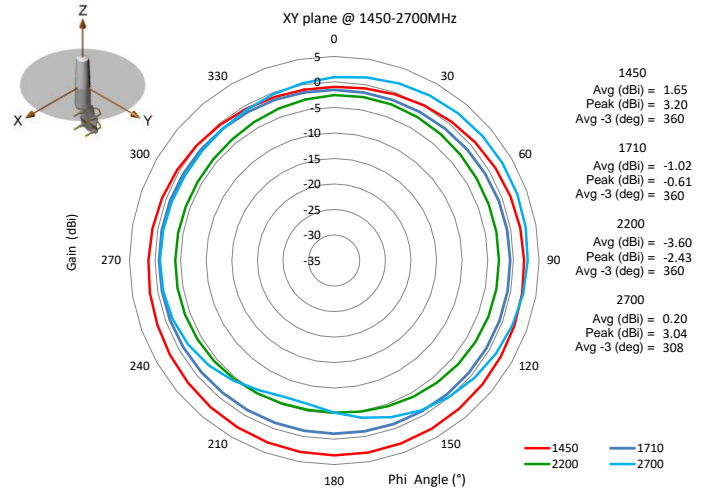
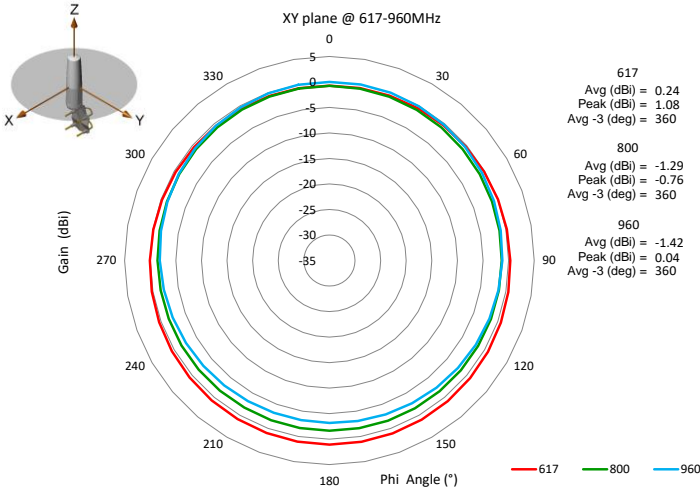


Efficiency vs Frequency
 RO600/71NFKIT Measured with bracket
 Measured at Pulse, USA - Aug 13, 2021



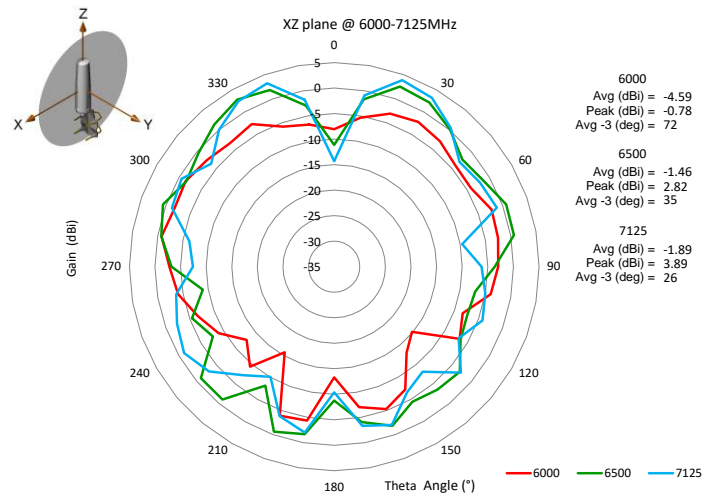
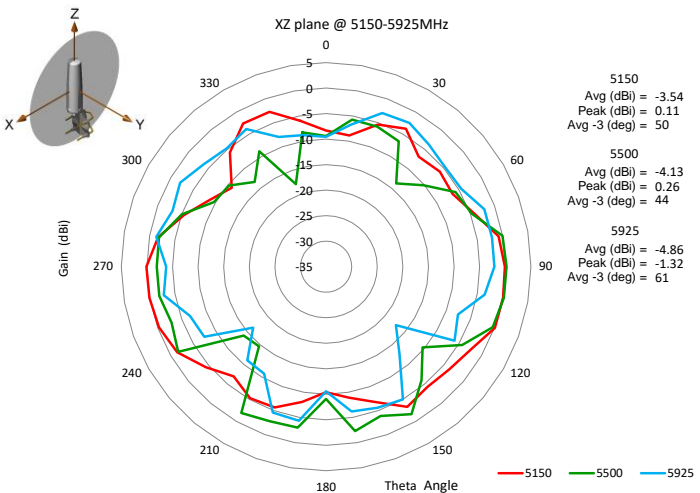
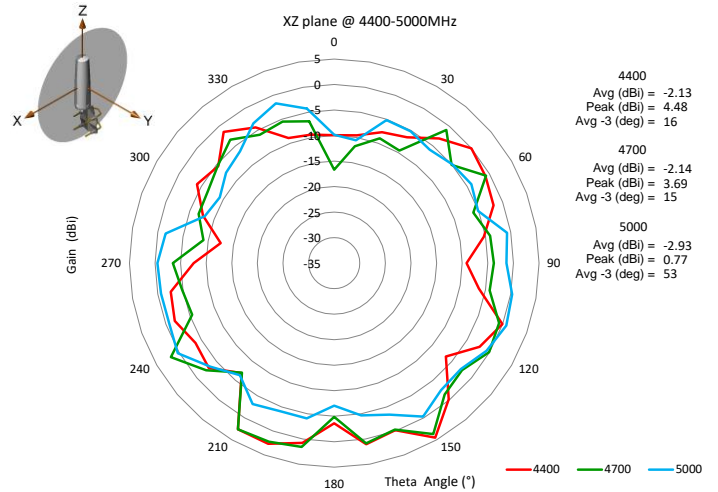
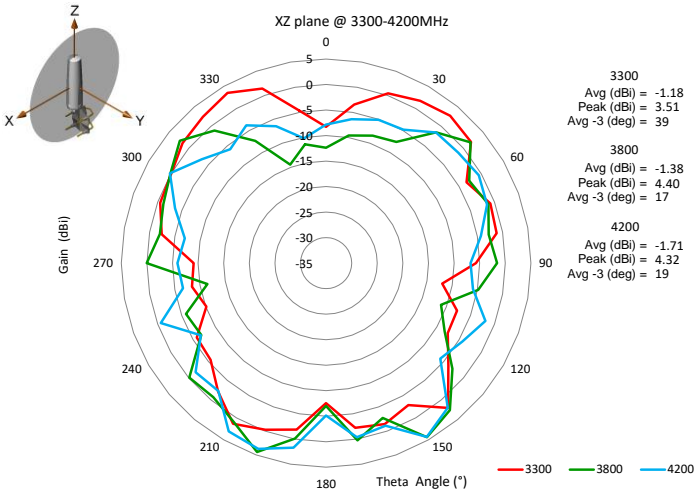
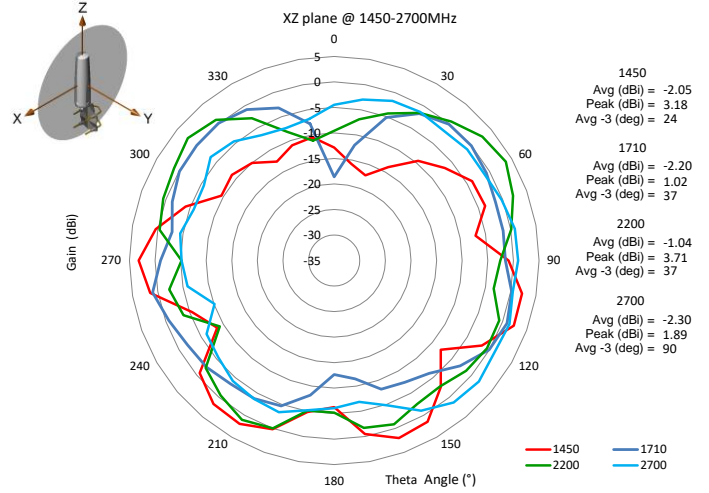
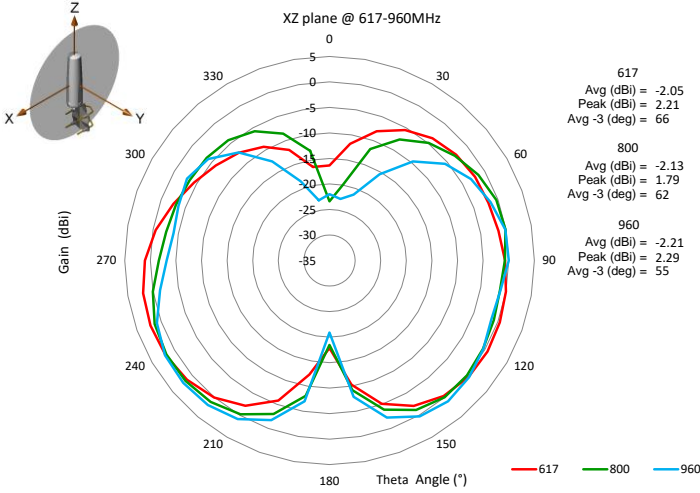
Charts- XY Gain Plots

RO600/71NFKIT



Charts – XZ Gain Plots

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Packaging

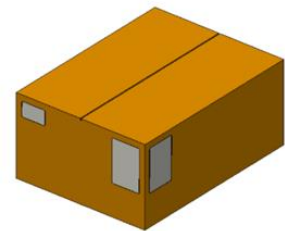
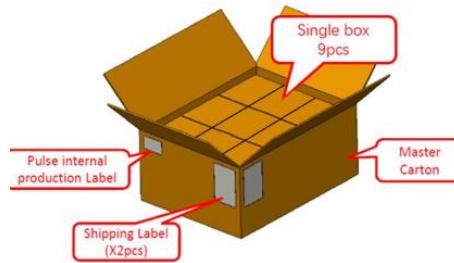
RO600/71NFKIT

Packaging info:

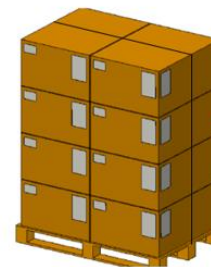
1 antenna packed in single box (285x155x90mm)

9 single boxes packed in out carton box (570x375x200mm)

1 label on each box with part number, description, date code.



Master carton size
570x375x200mm



1 Pallet can load 24 master carton
Total = 24x9 = 216pcs

P.S.:
(1) Pallet size: 1.2m X 0.8m
(2) Stack up height = 1.5m

Additional Product Info

RO600/71NFKIT

Family Products – RO (Radome Omni)

5G / 4G RO Products

Orderable PN	Connector Type	DC Ground	Color
RO600/71NFKIT	N-Female	Yes	White
RONG600/71NFKIT ¹	N-Female	No	White
RO600/71NF ²	N-Female	Yes	White
RONG600/71NF ^{1, 2}	N-Female	No	White
ROBKTSS (Mounting bracket with hardware)			

Notes:

1. 'NG' stands for 'No DC Ground'. RONG600/71NF (KIT) No DC ground version has higher power handling (60W).
2. Antenna only (bracket not included).
3. Please contact sales for availability, lead time, and/or any special requests. Samples available upon request.

For More Information:

Americas - antennas.us@pulseelectronics.com | Europe – antennas.eu@pulseelectronics.com | Asia – antennas.as@pulseelectronics.com | Questions? +1-800-ANTENNA
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